



KONICA MINOLTA

magicolor 2480 MF



Technical Guide



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December 2005



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*KONICA MINOLTA magicolor 2480 MF—
The color laser productivity center.*

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Introduction

Print, Copy, Scan, Camera Direct Photo Print, and PC Fax functionality make the magicolor 2480 MF an indispensable desktop tool.

In today's complex business environment, it's important to keep a competitive edge. The magicolor 2480 MF color laser all-in-one (AIO) helps small- and medium-sized businesses do just that by combining five essential office functions into a single machine that saves time, space, and money.

Print & Copy

The magicolor 2480 MF is quick to print and copy, delivering 20 crisp black & white or 5 vibrant color pages per minute—regardless of the print quality chosen—to keep up with the demands of a busy office. High-resolution 2400 x 600 dpi produces brilliant, true-to-life color pages and photographs.



Scan

ScanSoft PaperPort SE from Nuance, bundled with the magicolor 2480 MF, scans paper documents and photos (up to 8.5" x 14") in beautifully detailed 24-bit color directly to the PC. Scanned documents can be annotated; saved in PDF, JPEG, TIFF, and other file formats for easy file archiving or sharing; or converted to editable text via Optical Character Recognition (OCR).

Camera Direct Photo Print

The magicolor 2480 MF prints up to full-size 8.5" x 11" photos directly from a PictBridge-enabled digital camera—no PC or special software required.

PC Fax

FaxTalk Communicator, also bundled with the magicolor 2480 MF, can be used to send and receive digital faxes, annotate faxes before sending or printing, and turn the PC into a speakerphone and answering machine. You can also scan documents directly into FaxTalk Communicator from PaperPort SE.





Specs at a Glance

An overview of the magicolor 2480 MF's features.



Color laser productivity center

Print Method	Electrophotographic color laser
Processor	Oasis CD2040, 108 MHz
Print/Copy Speed	Up to 20 monochrome ppm (letter/A4) Up to 5 color ppm (letter/A4)
Resolution	Up to 2400 x 600 dpi
Scan Speed	6 sec/pg monochrome; 12 sec/pg color
Color Depth/Resolution	24-bit color at up to 600 x 600 dpi
Drivers	TWAIN and WIA
Utility	ScanSoft PaperPort SE from Nuance*
Camera Direct Photo Print	PictBridge 1.0 via USB 1.1 Host Port
PC Fax	FaxTalk Communicator; send & receive
Duty Cycle	Up to 35,000 letter or A4 prints/month
Memory	96 MB
Interfaces	Hi-Speed USB 2.0 USB 1.1 Host Port (for Camera Direct Photo Print) Optional external 10/100BaseTX Ethernet NIC
Media Input	200-sheet multipurpose tray 50-sheet Automatic Document Feeder Optional 500-sheet Lower Feeder Unit Optional Automatic Duplexer
Media Output	100-sheet face-down tray
Media Sizes	Up to legal (8.5" x 14" / 216 x 356 mm)
Media Types	Plain/recycled paper, glossy stock, thick stock, transparencies, postcards, laser-quality labels, envelopes
Media Weights	Up to 90 lb Index (163 g/m ²)
Color Control	Enhanced Automatic Image Density Control (eAIDC) built-in calibration; Automatic ICC-based color matching
Compatibility	Windows XP/2000/Me/98SE
Warranty	One-year exchange

* The PaperPort SE software has a single-user license. Additional licenses are available for purchase.



Target Markets

A perfect fit for SOHO and SMB.



• PRINT • COPY • SCAN • PC FAX •
• CAMERA DIRECT PHOTO PRINT •

Use the magicolor 2480 MF for any business document:

- Daily correspondence
- Email & web pages
- Newsletters
- Posters
- CD-ROM & mailing labels
- Business papers
- Spreadsheets & charts
- Reports
- Envelopes
- Maps
- Photographs
- Invoices

The versatile magicolor 2480 MF color laser all-in-one is ideal for small and home offices, small- and medium-sized businesses, and workgroups in larger organizations. It is amazingly cost-effective, yet boasts five essential business functions in one compact and stylish unit.

Customers faced with the following problems are sure to find the magicolor 2480 MF the solution they've been waiting for:

☐ Too many office machines to maintain

A one-product solution for an organization's essential business functions means less time and money spent maintaining separate machines.

☐ Limited space

Satellite and home offices that have limited space but still require the functionality of several office machines will discover that the magicolor 2480 MF's space-saving design is perfect for any workspace.

☐ Lack of privacy

For executives and departments (like Finance and Human Resources) that require private document management, the magicolor 2480 MF is a complete desktop solution.

☐ Expensive outsourced document production with long lead times

Businesses requiring professional, high-quality documents can save money and time by using the magicolor 2480 MF as an integral part of the document production cycle—copy or scan source materials, inspect photographs printed directly from a digital camera, annotate and fax draft documents for review, and print final documents in brilliant, attention-getting color.

☐ Aging technologies

The magicolor 2480 MF color laser all-in-one is the ideal solution for businesses moving up from older technologies—such as single-function devices, monochrome laser AIOs, and color inkjet AIOs.



Key Features

It's easy to see why the magicolor 2480 MF is the new 'must-have' machine for every office.

Dependable, High-Speed Laser Performance

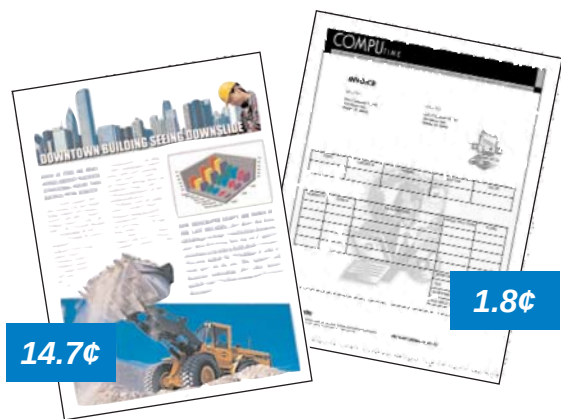
The magicolor 2480 MF features speedy first-page-out times of 12 seconds or less for black & white and 21 seconds or less for color prints. Multiple copies are delivered at 20 black & white or 5 full-color pages per minute, regardless of the print quality chosen.

Documents and photographs can be scanned directly to a PC in as fast as 6 seconds per black & white page or 12 seconds per 24-bit color page.

To share this color laser performance office-wide, the magicolor 2480 MF features 'Plug and Play' Hi-Speed USB 2.0 and optional Fast Ethernet (10/100BaseTX) interfaces, and boasts a robust duty cycle of up to 35,000 prints per month. Compatible with Windows XP, 2000, Me, and 98SE operating systems, the compact magicolor 2480 MF fits seamlessly into today's SMB landscape.

Affordable to Buy and Own

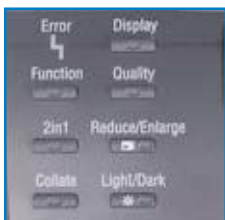
The magicolor 2480 MF is competitively priced and cost-effective to own. Purchase supplies for just one office machine rather than several. And at just pennies a print, both full-color and black & white laser-quality documents and photographs won't break the budget. In fact, the magicolor 2480 MF makes it easy to save both money and time because important document production can be kept in house.



Actual cost of samples shown. Cost-per-page (CPP) calculations are based on the manufacturer's consumables' list prices as of 11/1/05 CPP figures are derived using the manufacturer's page coverage analysis and high-capacity toner cartridges. Pricing is subject to change without notice.



Printing at 2400 dpi produces crisp text, rich blacks, vibrant colors, realistic photographs, detailed textures, and smooth shading.



All copy customization functions are available through one-touch keys on the control panel.

Outstanding Prints, Copies, Scans, Photos, and Digital Faxes

Based on KONICA MINOLTA's award-winning color laser print engine design, the magicolor 2480 MF makes it easy to produce professional laser-quality color prints, copies, scans, photos, and digital fax documents that are sure to impress.

Print Quality

The magicolor 2480 MF delivers outstanding print quality for any type of document. The following resolutions are available:

- ☐ 2400 x 600 dpi
- ☐ 1200 x 600 dpi
- ☐ 600 x 600 dpi

Printing at 2400 dpi resolution produces crisp text, rich blacks, vibrant colors, realistic photographs, detailed textures, and smooth shading.

Copy Quality

Two copy resolutions are available:

- ☐ Fine (2400 x 600 dpi)
- ☐ Normal (1200 x 600 dpi)

Copy quality can be enhanced by adjusting lightness and density as well as by specifying the type of document (text, photo, mixed) being copied. Copies can be resized easily by using the 50-200% zoom function. All features are available through one-touch keys on the control panel.

Scan Quality

With the PaperPort SE software bundled with the magicolor 2480 MF, documents and photos can be scanned directly to PDF, JPEG, TIFF, or another file format, annotated, edited, or converted to editable text with the Optical Character Recognition (OCR) feature.

Three scan resolutions are available:

- ☐ 600 x 600 dpi
- ☐ 300 x 300 dpi
- ☐ 150 x 150 dpi



[PC Fax Quality](#)

The FaxTalk Communicator software bundled with the magicolor 2480 MF provides digital PC Fax send and receive functionality and allows you to annotate faxes before sending or printing. You can also drag and drop scanned documents from PaperPort SE for easy faxing. Two fax resolutions are available:

- ☐ Fine (200 x 200 dpi)
- ☐ Standard (200 x 100 dpi)

Fine ensures that recipients will receive cleaner faxes, but Standard resolution faxes take less time to transmit.

[Multi-pass color laser technology](#)

The magicolor 2480 MF features KONICA MINOLTA multi-pass color laser technology with improved printing precision. New optical technology on the print head (first introduced on the award-winning magicolor 2400 Series printers) allows for a wider angle, which greatly reduces the distance between the print head and the media. Decreasing this distance reduces the overall size of the unit making it more compact.

[Simitri Polymerized Toner](#)

KONICA MINOLTA Simitri Polymerized Toner, composed of uniformly sized toner particles, produces beautiful colors, clear text even in small sizes, and smooth halftones—regardless of the print quality or media type selected. Color remains consistent from print to print because each batch of Simitri Polymerized Toner is tested for optimal color quality. Simitri Polymerized Toner also features improved fusing, even on recycled paper, so output is more durable and never smears or fades like inkjet prints.

Simitri



This all-in-one's small footprint makes it desktop friendly.

[Compact Size](#)

From an entirely practical standpoint, one of the beauties of the magicolor 2480 MF is its compact desktop size. Imagine printing, copying, scanning, camera direct photo printing, and PC Faxing—without even getting up from the desk.

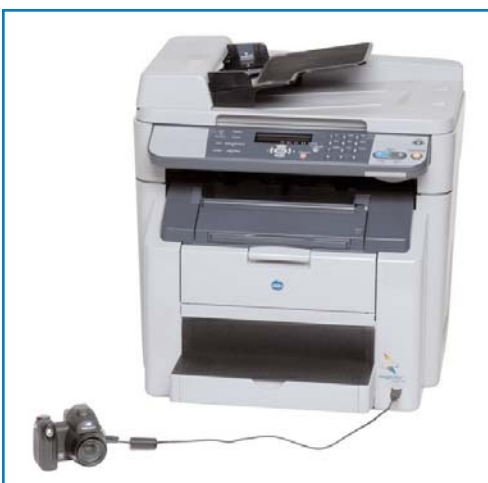
Adding an optional duplexer doesn't affect the size of the device at all while an optional lower feeder increases the height by only 4.75".



Easy to Set up and Use

Most people find their business day hectic enough without devoting time to the setup and maintenance of a new office machine. That's why ease of setup and use are built into the magicolor 2480 MF.

- ❑ **Pre-installed supplies:** Since all supplies are pre-installed at the factory, it typically takes less than five minutes to unpack and install the magicolor 2480 MF, and print a configuration page.
- ❑ **Auto-run installation software:** The magicolor 2480 MF *Utilities & Documentation* CD-ROM includes an auto-run program that guides customers step-by-step through the installation process.
- ❑ **Convenient front access to supplies:** The magicolor 2480 MF uses only five supplies—four toner cartridges (black, cyan, magenta, and yellow) and a drum cartridge. Convenient front access makes replacement of supplies a snap.
- ❑ **One-touch control panel functions:** Intuitive one-touch keys on the control panel make it easy to customize jobs.
- ❑ **LCD window:** The LCD window on the control panel displays copy settings, printer configuration, toner supply, and status messages.
- ❑ **USB 1.1 Host Port:** The USB 1.1 Host Port is conveniently located on the front of the magicolor 2480 MF for quick photo printing from a PictBridge-enabled digital camera.
- ❑ **Automatic document feeder:** The 50-sheet automatic document feeder provides time-saving, unattended copying and scanning.
- ❑ **Optional duplexer:** Customers can manually duplex documents with the magicolor 2480 MF, but an optional duplexer provides automatic two-sided printing that saves both time and paper.



Print photos directly from a PictBridge-enabled digital camera—no PC or special software required.

Camera Direct Photo Printing

The Camera Direct Photo Print function allows digital images to be printed directly from a PictBridge-enabled digital camera—no PC or special software required. Photos can be printed on any supported media up to 8.5" x 11". Borderless 4" x 6" prints are also available with special media.

PictBridge provides control over a number of photo printing options, including resolution, media type and size, copy count, n-up, batch, and index printing.



Exceptional Media Handling

The magicolor 2480 MF supports a wide variety of standard and custom media sizes (from 3.6" x 5.8" to 8.5" x 14"), as well as all common types of office media, including plain paper, thick stock, glossy stock, transparencies, labels (mailing, CD-ROM, etc.), and envelopes.

An optional automatic duplexer provides laser-quality, two-sided printed reports and other documents. It also lets you make cost-effective, two-sided copies from one-sided originals. It's never been so easy to print whatever is needed at a moment's notice.

For versatile copying and scanning, the flatbed glass and the automatic document feeder (ADF) support documents up to legal size (8.5" x 14").



"I felt like he went out of his way to assist me. For as long as your service is as good as this you have a life-long KONICA MINOLTA customer. No going back to HP. —Luis T.

Free Technical Support

With KONICA MINOLTA US-based Technical Support, you never have to wait to have your questions answered. Average response time is less than 1 minute during normal business hours. Technical support is free for 5 years.

Technical support is available in three different ways:

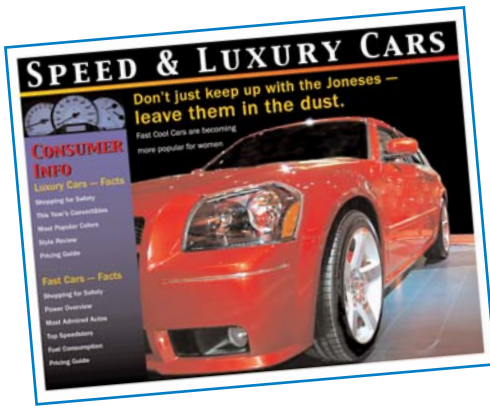
- ☐ **Answer Base:** The Answer Base provides 24-Hour Online Help. Answers to hundreds of common questions and diagnostic advice for all of our printers and all-in-ones are available at printer.konicaminolta.com/support.
- ☐ **Email:** If you can't find the answer you need in the Answer Base, contact one of our Support Engineers via email at <http://printer.konicaminolta.com/support/supportmail/index.html>.
- ☐ **Telephone:** If you would rather talk to a KONICA MINOLTA Technical Support engineer, call (877) 778-2687. Check current business hours at printer.konicaminolta.com/support.





Engine

Excellent print quality and performance.



Based on the award-winning magicolor 2400 Series print engine, the magicolor 2480 MF offers exceptional quality and reliability.

Type

The magicolor 2480 MF uses the same KONICA MINOLTA laser printer engine found in the award-winning magicolor 2400 Series printers. This engine features a multi-pass CMYK (cyan, magenta, yellow, black) printing system to produce full-color output.

Duty Cycle

Maximum duty cycle is 35,000 letter/A4-size prints per month.

Print/Copy Speed

Page Size	Monochrome (Black)	Full Color	Notes
Letter/A4	20 ppm	5 ppm	Plain paper

First-Print-Out Time*

Page Size	Monochrome (Black)	Full Color	Notes
Letter/A4	12 seconds	21 seconds	Plain paper

* From an idle, ready state

First-Copy-Out Time*

Page Size	Monochrome (Black)	Full Color	Notes
Letter/A4	25 seconds	52 seconds	Plain paper

* From an idle, ready state



Operating Environment Conditions

Power supply	110–127 V, 50–60 Hz
Power consumption	1,100 W maximum 600 W or less (monochrome printing) 450 W or less (color printing) 250 W or less (standby) 28 W or less (Energy Saver)
Temperature (operating)	50°–95° F (10° –35° C)
Humidity (operating)	15–85% RH
Noise	57 dB or less (printing) 39 dB or less (standby)

Weights and Dimensions

Weight

Shipping (all-in-one)	81.6 lbs (37.1 kg)
Shipping (lower feeder unit)	18.3 lbs (8.3 kg)
Shipping (duplex option)	7.7 lbs (3.5 kg)
All-in-one only with consumables	70.4 lbs (32 kg)
All-in-one only without consumables	63.1 lbs (28.7 kg)

Packaging

Width	Depth	Height
26.6" (675 mm)	23.6" (600 mm)	27.1" (689 mm)

Base unit (trays open)

Width	Depth	Height
20.9" (530 mm)	23.1" (586 mm)	20.9" (531 mm)

Base unit (trays closed)

Width	Depth	Height
20.9" (530 mm)	18.7" (475 mm)	20.9" (531 mm)

Base unit (with optional lower feeder unit and duplex option)

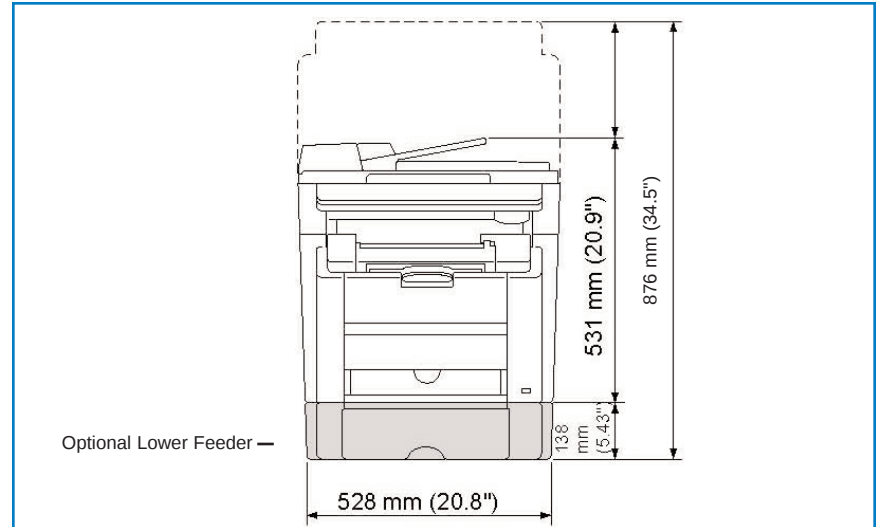
Width	Depth	Height
20.9" (530 mm)	23.1" (586 mm)	26.3" (669 mm)



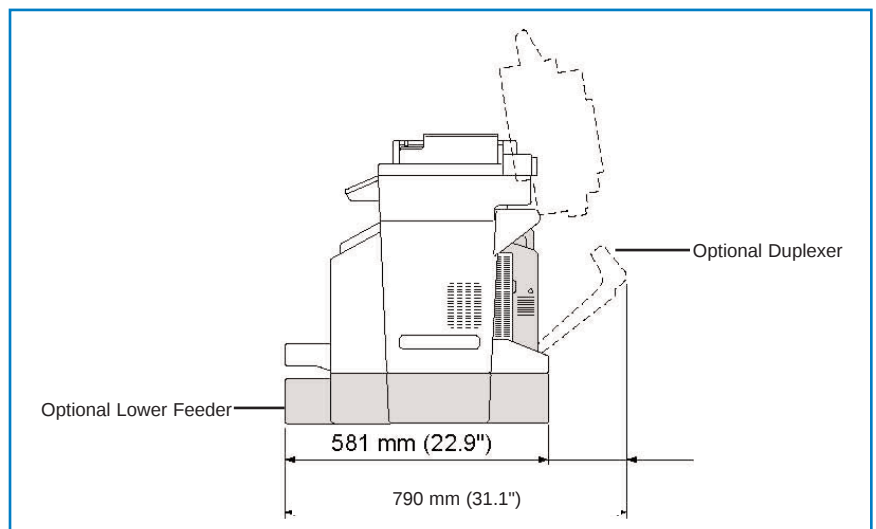
The compact magicolor 2480 MF easily fits in any workspace.



Clearance dimensions (front view)



Clearance dimensions (side view)





Controller

The magicolor 2480 MF uses the power of the PC operating system to provide superior, cost-effective performance.



Host System Requirements

- ☐ 333 MHz Celeron®-class PC
- ☐ 128 MB RAM
- ☐ 128 MB free hard disk space
- ☐ CD-ROM/DVD drive for drivers and utilities

Type

The magicolor 2480 MF controller has 96 MB SDRAM on board.

Processor

The magicolor 2480 MF uses the power of the host computer's operating system for processing documents prior to printing. The controller's ASIC, operating at 108 MHz, provides better performance than comparable processors because most image operations are executed in the hardware rather than with multiple, slower software commands.

Memory

The magicolor 2480 MF's 96 MB RAM is sufficient for all simplex and duplex printing and copying, camera direct photo printing, and scanning at all supported resolutions. Additional memory is not required because the magicolor 2480 MF uses a highly efficient compression rate, and the embedded memory has been carefully synchronized with the internal processor.

Compatibility

The magicolor 2480 MF is compatible with the following operating systems:

- ☐ Windows XP/2000/Me/98SE





Connectivity

The following interfaces are available:

- ❑ **Hi-Speed USB 2.0**—This “Plug and Play” interface supports Windows XP, 2000, Me, and 98SE. It provides a 4-pin Series B connector and runs at speeds up to 480 Mbps.
- ❑ **USB 1.1 Host Port**—This interface for Camera Direct Photo Printing is conveniently located on the front of the magicolor 2480 MF.
- ❑ **Ethernet 10/100BaseTX (optional)**—The silex technology SX-1000U Ethernet 10/100BaseTX Device Server is an autosensing external network interface card that operates on both 10 Mbps LAN and 100 Mbps Fast Ethernet networks. It supports printing and scanning over TCP/IP for Windows XP/2000.

Resolution

Print and Copy

- ❑ **2400 x 600 dpi**—For the best print and copy quality, choose 2400 x 600 dpi. This resolution is perfect for everything from text and line art to clip art and photographs. It provides clean text, great detail and character in fine lines and halftones, and rich, solid colors.
- ❑ **1200 x 600 dpi**—The magicolor 2480 MF's default print and copy resolution is 1200 x 600 dpi, which is fine for general business documents that include text and graphics.
- ❑ **600 x 600 dpi (print only)**—For printing drafts and disposable documents, select 600 x 600 dpi resolution.

Increasing or reducing print resolution does not affect the speed of the engine or significantly affect the amount of toner used for printed output. The magicolor 2480 MF prints at full speed regardless of the print or copy resolution chosen, and it provides a low cost per page even at the highest print and copy quality selections.

The print and copy quality is further enhanced at all resolutions by the use of Simitri Polymerized Toner technology.

Copy quality may also be enhanced by adjusting such characteristics as lightness, density, and document type.





Documents can be scanned from the flatbed glass or the automatic document feeder.

Scanning

Scan quality is composed of bit depth and optical resolution.

Bit depth refers to the amount of digital information embedded in each pixel. The magicolor 2480 MF features 24-bit color scans, which provide 16.7 million colors.

Optical resolution refers to the quality at which the scanner converts a paper image to a digital image. It is not the same as print resolution. The magicolor 2480 MF provides the following optical scan resolutions:

- ☐ 600 x 600 dpi
- ☐ 300 x 300 dpi
- ☐ 150 x 150 dpi

The resolution at which a document should be scanned depends upon a number of factors, including the size of the original item, the type of item (text, photograph, or a mixture of both), and the final size and purpose of the scanned image (print, web, etc.)

The PaperPort SE document management and imaging software included with the magicolor 2480 MF allows you to edit, annotate, and save scanned documents to PDF, JPEG, TIFF, or another file format. Using the Optical Character Recognition (OCR) feature you can also convert scanned images to editable text. The PaperPort SE online help provides some helpful tips about resolution choices. However, a good guideline is to choose a higher scan resolution for files that will be printed and a lower scan resolution for files that will be posted to the web. In addition, the higher the resolution, the larger the file size.

TWAIN and WIA drivers are available for scanning from other Windows applications, such as Word and Photoshop. They are automatically installed on the PC at the same time the printer drivers are.

PC Fax

The Fax Communicator software bundled with the magicolor 2480 MF provides digital fax send and receive functionality and allows you to annotate faxes before sending and printing. You can also drag and drop scanned documents from PaperPort SE for easy faxing. Two fax resolutions are available:

- ☐ Fine (200 x 200 dpi)
- ☐ Standard (200 x 100 dpi)

Fine ensures that recipients will receive cleaner faxes, but Standard resolution faxes take less time to transmit.



Media Handling

The magicolor 2480 MF supports the media types, sizes, and features that productive businesses require.

Standard Media Handling

The magicolor 2480 MF includes a 200-sheet multipurpose tray for paper and other media. It accommodates all supported page sizes up to 8.5" x 14" (216 x 356 mm).

An optional 500-sheet lower feeder unit (letter or A4) is also available to increase paper input to 700 sheets.

Printed pages are delivered face down into the 100-sheet output tray, located beneath the scanner unit.

When necessary, both the multipurpose and output trays can be closed to conserve space. This reduces the depth by 4.4" (111 mm).



The multipurpose tray holds up to 200 sheets of paper.

Supported Media Types

The magicolor 2480 MF supports a wide range of media commonly used for business applications. For a complete list of approved media, go to printer.konicaminolta.com.



The output tray must be opened before printing or copying.

Media Type	Specifications	Setting
Normal paper	16–24 lb (60–90 g/m ²)	Plain Paper
Recycled paper	16–24 lb (60–90 g/m ²)	Plain Paper
Cardstock (thick stock)	25–43 lb bond** (91–163 g/m ²)	Cardstock
Coated paper	16–24 lb (60–90 g/m ²)	Coated Paper
Envelopes	Supported*	Envelope
Labels (sheet)	Supported*	Labels
Letterhead	16–24 lb (60–90 g/m ²)	Letter Head
Photo (2-up, 4" x 6")	Office Depot #916-714	Coated
Postcards	16–43 lb (60–163 g/m ²)	Postcard
Transparencies	KONICA MINOLTA Q-Media	Transparency

* Must be certified for laser printers and capable of withstanding fusing temperature of 401° F (205° C)

** 43 lb bond is also referred to as 90 lb index

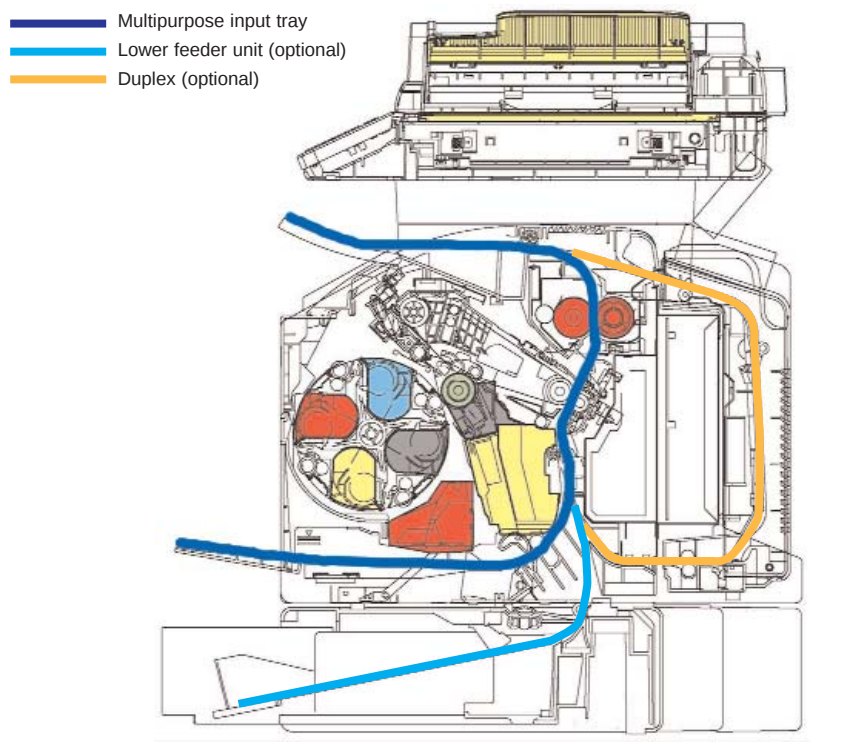


Media Path

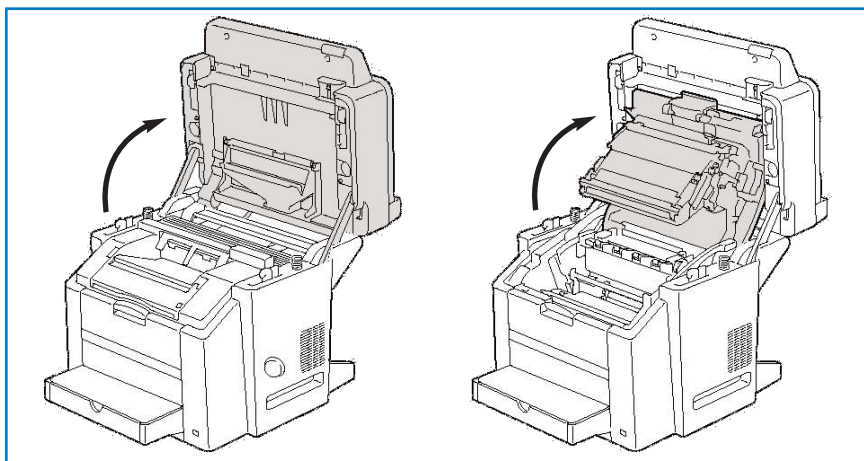


The automatic document feeder also features a C-shaped media path.

The magicolor 2480 MF's media path follows a C-shaped curve, allowing it to support thick stock.



To remove a media jam, open the scanner unit and then the engine cover.

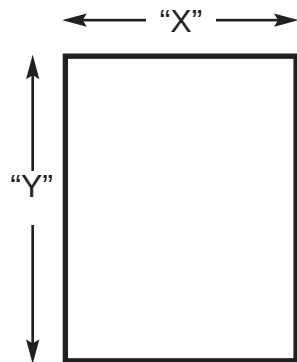


Imageable Area

- ❑ Guaranteed print width—Up to 8.19" (208 mm)
- ❑ Guaranteed print length—Up to 13.4" (341.6 mm) color; up to 13.7" (347.6 mm) monochrome
- ❑ Non-printable area—0.16" (4 mm) from all page edges



Supported Media Sizes



The table at the right refers to X and Y dimensions of the media as diagrammed above.

Custom Paper

Name:

Size:

Width: /16
[3 10/16 - 8 8/16]

Height: /16
[7 13/16 - 14 0/16]

Unit:
☒ inch
☐ mm

OK Cancel Help

Custom Paper

Name:

Size:

Width: /16
[3 10/16 - 8 8/16]

Height: /16
[7 12/16 - 14 0/16]

Unit:
☒ inch
☐ mm

OK Cancel Help

Custom Paper

Paper Name:

Paper Size:

New... Edit... Delete OK Cancel Help

Custom page sizes from 3.6" x 5.8" to 8.5" x 14" can be defined in the printer driver.

Media Type & Size	x-Dimension	y-Dimension
Cut-Sheet Paper		
A4	210 mm	297 mm
A5	148 mm	210 mm
Executive	7.25"	10.5"
F4	210 mm	330 mm
Foolscap	8"	13"
G [Government] Legal	8.5"	13"
G [Government] Letter	8.5"	10"
Kai 16	185 mm	260 mm
Legal	8.5"	14"
Letter	8.5"	11"
Letter Plus	8.5"	12.7"
Statement	5.5"	8.5"
UK Quarto	8"	10"
Custom	3.6" (min) 8.5" (max)	5.8" (min) 14" (max)

Envelopes		
B5	182 mm	257 mm
C5	162 mm	229 mm
C6	114 mm	162 mm
Com 10	4.125"	9.5"
DL	110 mm	220 mm
Monarch	3.875"	7.5"
Yokei-0	120 mm	235 mm
Yokei-4	105 mm	235 mm
Kai 32	130 mm	185 mm

Transparencies		
A4	210 mm	297 mm
Letter	8.5"	11"
Postcards		
Double Postcard	148 mm	200 mm
J Postcard	100 mm	148 mm



Advanced Document Processing—Printing

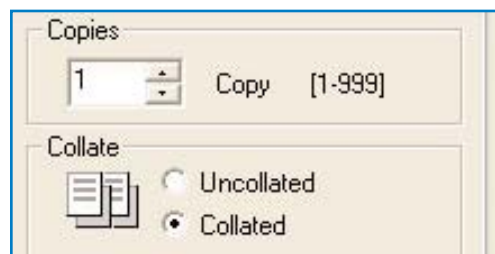
The magicolor 2480 MF printer driver provides several advanced document processing functions for printed documents:

- ☐ Printer-based electronic collation
- ☐ N-up printing
- ☐ 2-sided printing
- ☐ Form overlays
- ☐ Watermarks

Printer-based electronic collation

Collation refers to sorting multiple printed copies of a multi-page document into the proper order.

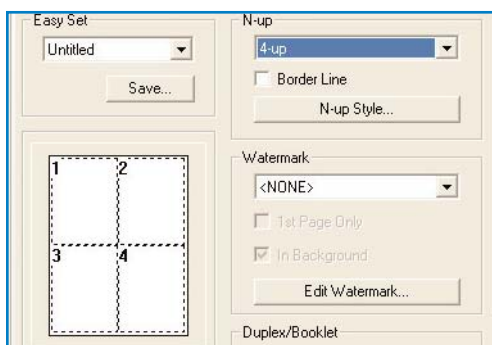
Printer-based electronic collation means that the document file is transmitted to the magicolor 2480 MF only once, and the sorting is done at the printer.



For example, if you want 2 collated copies of a 3-page document, on the Paper tab specify 2 copies and select “Collated.” The document file is transmitted to the magicolor 2480 MF once, and the pages are printed in the order 1-2-3 (copy 1), 1-2-3 (copy 2).

N-up printing

The n-up option allows 2, 4, 6, 9, or 16 pages of a multi-page document to be printed on a single sheet of media. You can also add a border line around each page and specify the flow of the pages across the sheet.

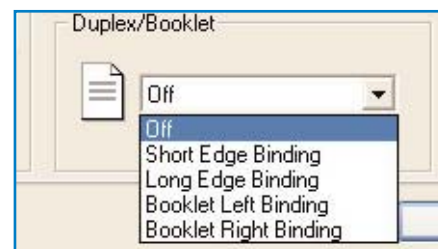


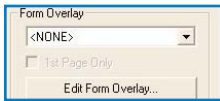
Use the N-up feature on the Setup tab to print 2, 4, 6, 9, or 16 pages on a single sheet.

2-sided printing

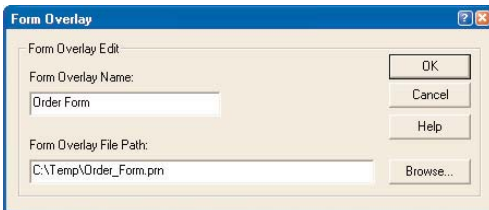
If an optional duplexer is not installed, 2-sided documents can be printed manually by printing one side, reinserting it in the input tray, and then printing the other side.

If an optional duplexer is installed, four automatic duplex options are available on the Setup tab: Short Edge Binding, Long Edge Binding, Booklet Left Binding, and Booklet Right Binding. The two Booklet options print pages that can be folded in half to create a booklet.





Print form overlays on just the first or all pages of a document.

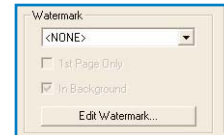


Form overlays

A **form overlay** is a print file that is printed either on the first page or on all pages of a document. Form overlays are identified and enabled on the Paper tab.

Watermarks

A **watermark** is a word or phrase that is repeated on each printed page. Common text watermarks such as “CONFIDENTIAL” and “DRAFT” can be added to a document—or a custom watermark can be created. The printer driver also includes selections for indicating the watermark’s font, style, size, color, placement, and angle. Watermarks are created, edited, and enabled on the Setup tab.



Collated and 2in1 copies are available via 1-touch keys on the control panel.

Advanced Document Processing—Copying

The magicolor 2480 MF control panel provides advanced document processing functions for copied documents:

- ☐ Copier-based electronic collation
- ☐ 2in1 copying
- ☐ 2-sided copying

Copier-based electronic collation

Multiple copies of multi-page originals can be sorted into sets with the pages in the proper order by using the Collate key on the control panel. The entire document is scanned into memory, and then each copy is printed with its pages in the proper order.

2in1 copying

To save paper, use the 2in1 key on the control panel to copy two originals onto a single page. Note: 2in1 copying must be performed through the automatic document feeder, not from the flatbed glass.

2-sided copying

As with printing, 1-sided or 2-sided originals can be made into 2-sided copies either manually or automatically. To use the optional duplexer to make 2-sided copies, enable duplex printing via the Function key on the control panel. Two-sided copies can be made from the automatic document feeder or the flatbed glass.



Supplies

The magicolor 2480 MF uses the same supplies as the other products in the magicolor 2400 Series.



Cyan, magenta, yellow, and black (CMYK) toner cartridges.

Toner Cartridges

The four magicolor 2480 MF toner cartridges (CMYK) are color-coded for error-free installation and feature an intelligent chip that stores information on toner levels for accurate supplies monitoring. (See “Supplies Monitoring,” later in this guide, for further information.)

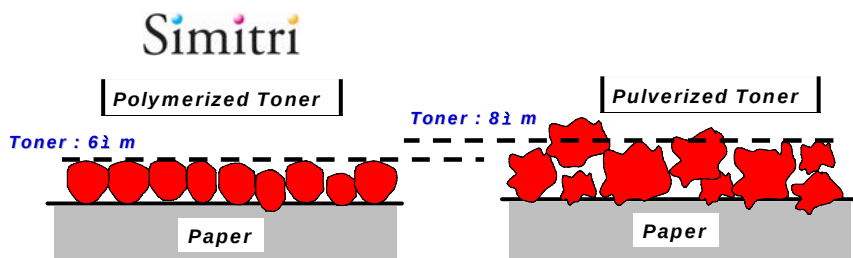
KONICA MINOLTA Simitri Polymerized Toner produces exceptional output. Its particles are smaller and more uniform in size and shape than conventional pulverized toner, providing finer lines, better halftones, and improved image quality. It also has a higher transfer efficiency than regular toner, further contributing to output quality while producing less waste toner. This means that less toner remains on the surfaces of the drum cartridges, transfer belt units, and rollers after a page has printed, which in turn means cleaner prints.

A lubricant encapsulated within the toner particles eliminates the need for fuser oil, meaning that you have one less consumable to buy. Polymerized Toner is also environment friendly, emitting less carbon acid gas (CO₂), nitrogen oxide (NO_x), and sulfur oxide (SO_x) in the production process.

Always use toner identified as “Genuine KONICA MINOLTA.” The internal components of the magicolor 2480 MF are specifically designed around the parameters of genuine KONICA MINOLTA Simitri Polymerized Toner. Although toner cartridges from other manufacturers may fit, using them will cause the magicolor 2480 MF to initiate longer cleaning cycles (to protect itself from toners with unknown adhesion properties) and slower printing.

Be sure to match the toner cartridge and all-in-one “types.” In the Americas, 110V units use “Type AM” Genuine KONICA MINOLTA toner cartridges while 220V units use “Type EU.”

KONICA MINOLTA Simitri Polymerized Toner particles are small and more uniform in size and shape than conventional pulverized toner particles. The result is finer lines, better halftones, and improved print quality.





The drum cartridge includes the OPC drum and the waste toner box.

Drum Cartridge

The drum cartridge includes the OPC drum and the waste toner box. The waste toner box captures excess toner during the printing process and prevents engine damage from loose toner particles. An agitation screw inside the waste toner box ensures efficient waste toner storage.

In-box Supplies

The standard in-box toner cartridges contain enough toner for an average of 1,500 prints at standard 5% coverage, letter/A4-size paper, continuous printing. Also included is a full-capacity drum cartridge.

Replacement Supplies

Item	Yield*	Notes
Black, Cyan, Magenta, and Yellow Toner—High Capacity	4,500 pages	Continuous printing
Cyan, Magenta, and Yellow Toner—Standard Capacity	1,500 pages	Continuous printing
Drum Cartridge	45,000 pages	Monochrome, continuous printing
	10,000 pages	Monochrome, intermittent printing
	11,250 pages	Full color, continuous printing
	7,500 pages	Full color, intermittent printing

**Supply yields are expressed as an average number of letter/A4 pages at 5% coverage. However, actual supply life depends on such variables as page coverage, page size, media type, continuous or intermittent printing, number of color planes, ambient temperature, and humidity. Optimal supply life is achieved through continuous printing (three or more pages per job). Intermittent printing (one page per job) reduces supply life. Maximum toner cartridge yield at coverage below 5% is 6,000 pages.*



All supplies are conveniently accessed from the front of the magicolor 2480 MF.



Supplies Monitoring

Two methods for viewing supply levels are available:

- ☐ Control panel message window
- ☐ Machine status list

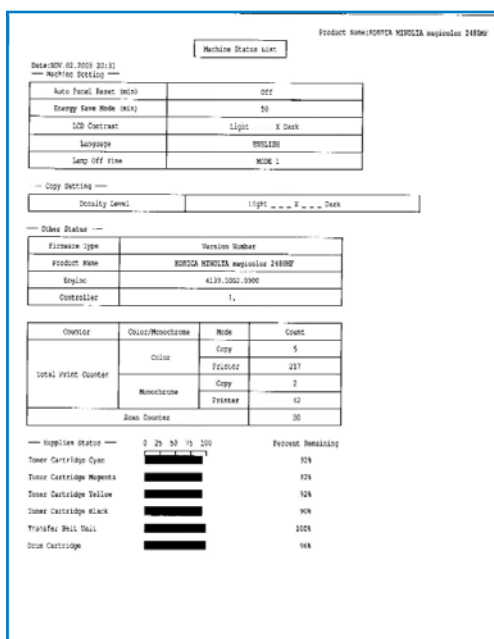
Control Panel Message Window

When the machine is functioning normally, press the Display key once to display a rough indication in the control panel's message window of the level in each toner cartridge.

The control panel also alerts you when a toner cartridge or the drum cartridge is nearing the end of its life and when it needs to be replaced. In each case, the two lines of the message display alternately in the message window.



Display the toner "gas gauges" by pressing the Display key twice.



Print a Machine Status List to check machine settings and view supplies status.

Message	Meaning	Action
DRUM LOW	The drum cartridge is near the end of its life.	Prepare a new drum cartridge.
DRUM LIFE END CHANGE DRUM	The waste toner bottle in the drum cartridge is full.	Replace the drum cartridge immediately.
END OF LIFE CHANGE DRUM	The drum cartridge has reached the end of its life.	Replace the drum cartridge as soon as possible.
(CMYK) TONER LOW	The indicated toner cartridge is low and should be replaced within about 200 pages.	Prepare a new toner cartridge.
TONER LIFE END CHANGE (CMYK) TONER	The indicated toner cartridge is empty.	Replace the toner cartridge immediately.
(CMYK) TONER EMPTY CHANGE (CMYK) TONER	The indicated toner cartridge is empty.	Replace the toner cartridge as soon as possible.

Machine Status List

When the machine is functioning normally, press the Display key once and then press the Right Arrow key twice to display PRINT REPORT in the message window. Then press the Menu/Select key twice to print a machine status list. This page displays a visual indication of the remaining life of each supply as well as the exact percent remaining.



All-in-One Management

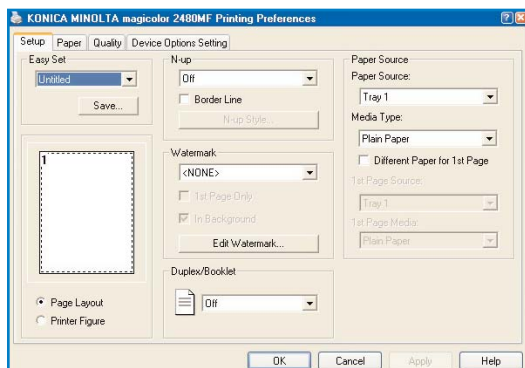
Complete control of the magicolor 2480 MF is in your hands.

Convenient Management Tools

Use the following tools to manage the magicolor 2480 MF. All functions are described in detail in the electronic documentation.

- ☐ Printer drivers
- ☐ Control Panel
- ☐ Electronic Documentation

The magicolor 2480 MF *Utilities & Documentation* CD-ROM features an auto-install interface that automatically guides you step-by-step through the installation process.



The magicolor 2480 MF printer driver features a tabbed layout that conforms to Microsoft standards, making it very simple to use.

Printer Drivers

The printer drivers support Windows XP/2000/Me/98SE and are Microsoft-certified. They are available in 8 languages on the CD-ROM: English, Czech, French, German, Italian, Polish, Portuguese (Brazilian), and Spanish.

You must install a printer driver on each computer that will print to the magicolor 2480 MF.



Control Panel

The magicolor 2480 MF control panel has a 2-line, 20-character LCD window that displays copy settings, machine status (including status and error messages), menus and settings options in the configuration menu, and toner supply levels.

LEDs

Three LEDs indicate machine status.

<u>Ready</u>	<u>Green</u>	<u>Red</u>
Copy	The machine is in Print/Copy mode.	N/A
Error	N/A	The machine requires attention. This is usually accompanied by a status message in the message window.
Start	The machine is ready to use.	The machine is warming up or printing, or an error has occurred.

Configuration Keys

Six keys are used for machine configuration.

Menu/Select	Enters the configuration menu; selects the displayed menu or setting.
Left and Right Keys	Move left and right through the settings in the configuration menu; specify copy density in Copy mode.
Up and Down Keys	Move up and down in the configuration menu; adjust the reduce/enlarge ratio in 1% increments in Copy mode.



Configuration Keys (cont.)

Cancel/C Key	In the configuration menu, cancels the currently displayed setting or exits from the displayed menu; in Copy mode clears the specified number of copies.
Stop/Reset Key	Exits the configuration menu or stops the current process.
Function Key	Allows the media tray and/or duplex setting to be specified for copying if an optional lower feeder and/or duplex option are installed.



Use the Start - B&W and Start - Color keys to make copies from the flatbed glass or the automatic document feeder.

Copy Function Keys

Copy Key	Enters Copy mode.
2-in-1 Key	Specifies that 2 originals should be copied onto 1 page.
Collate Key	Sorts multiple copies into sets.
Light/Dark Key	Adjusts the brightness (density) of a copy.
Numeric (0-9) Keys	Specifies the number of copies to be made (Note: The * and # keys are not used.)
Quality Key	Selects the type of document to be copied and the copy resolution.
Reduce/Enlarge Key	Sets the size of the copy (50%-200%).
Start - B&W Key	Makes a black and white (monochrome) copy.
Start - Color Key	Makes a color copy.

Other Keys

Display Key	Toggles the control panel message window between the main screen (which displays copy settings), the toner supply screen and, if applicable, an error message screen. Use the Left and Right keys to view display options.
TC Change Key	Prepares the machine for toner replacement.



Electronic Documentation

Three useful manuals are included on the magicolor 2480 MF *Utilities & Documentation* CD-ROM:

❑ *magicolor 2480 MF Installation Guide*

This short, heavily illustrated manual describes how to unpack and set up the magicolor 2480 MF and prepare it for printing and copying.

❑ *magicolor 2480 MF User's Guide*

This manual provides complete information about using and maintaining the magicolor 2480 MF.

❑ *magicolor 2480 MF Quick Guide*

This guide provides a brief overview of the control panel and how to copy and scan documents.

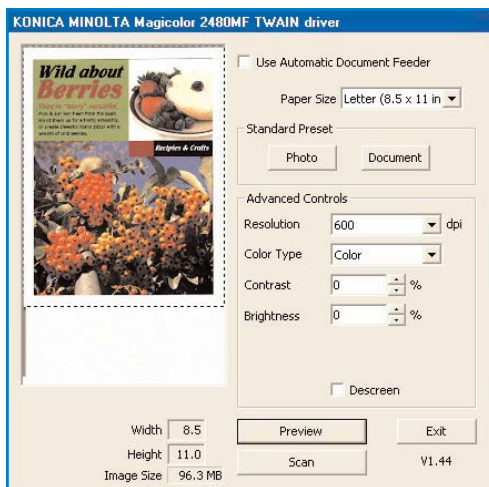
These manuals are provided in Adobe PDF format. With the free Adobe Reader, you can easily display these manuals on the computer screen, enlarge any illustrations you need to see close up, easily search for a certain word or phrase, or print part or all of the manuals. In addition, these electronic manuals can be easily stored on the PC's hard disk or in a convenient place on the network, so they're only a click away when needed.

All of the documentation is also posted on the KONICA MINOLTA PRINTING SOLUTIONS U.S.A. Service & Support website at printer.konicaminolta.com/support



PaperPort SE

Convert paper documents into digital documents to share or edit.



The Twain driver provides several functions to customize scans.

Scanning

The magicolor 2480 MF and PaperPort SE work together to provide an easy way to convert paper documents to digital documents for easy file sharing. Documents and photographs can be scanned using either the TWAIN or WIA scan driver. Both are included on the magicolor 2480 MF *Utilities & Documentation* CD-ROM and are installed on the PC at the same time the magicolor 2480 MF printer driver is installed.

[Saving scanned files](#)

Scanned files can be saved in PDF, JPEG, TIFF, and other common file formats.

[Touching up images](#)

Once a document has been scanned, PaperPort SE provides a number of tools that allow it to be further customized. Image files (such as PDF, BMP, JPEG, and TIFF) can be imported directly into PaperPort SE for customization.

Image-editing tools include Rotate, Straighten and Auto Straighten, Enhance and Auto Enhance, Sharpen, Remove Red Eye, Crop, Erase, Remove Stray Dots, and Improve Lines.

[Annotating pages](#)

The annotation tools in PaperPort SE allow you to add notes and text, highlight text, draw lines and arrows, and stamp bitmap images on a page. Annotations added to PDF and PaperPort Image (.max) files can be edited at a later date while annotations added to other image files become a permanent part of the image.



Optical Character Recognition

Scanned text documents can be easily converted to editable text simply by dragging and dropping them to a word processing program (such as Word). PaperPort SE automatically processes the scanned document, using its Optical Character Recognition (OCR) functionality, and then opens the editable text in the word processing program.

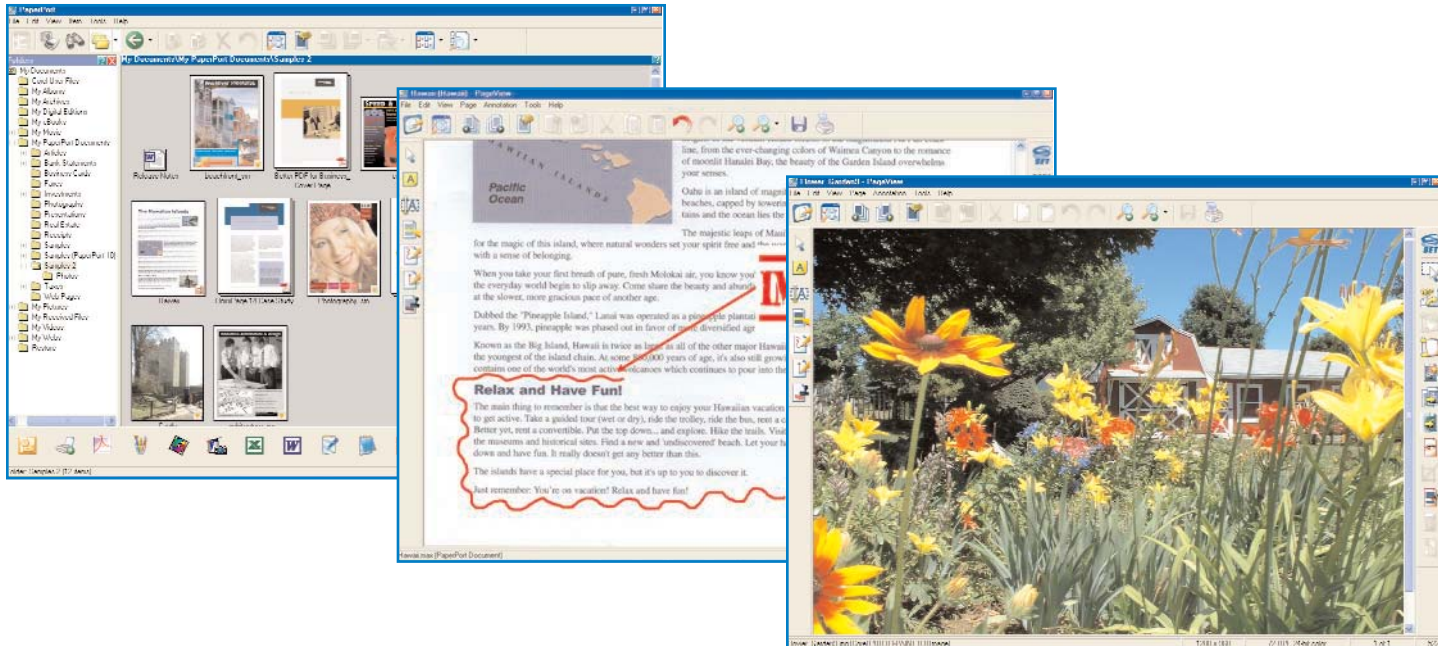
Organizing Image Files

The PaperPort SE visual interface makes it easy to visually organize scanned documents, digital photographs, and other image files.

The default file folders can be copied, moved, rearranged, renamed, and color coded for easy identification and classification, and new file folders can be added. Image files can be moved to any folder simply by dragging and dropping.

Once items have been organized into file folders, they can be located using the PaperPort SE SimpleSearch feature, which allows files to be searched for by name, author, added comments or keywords, and annotation text.

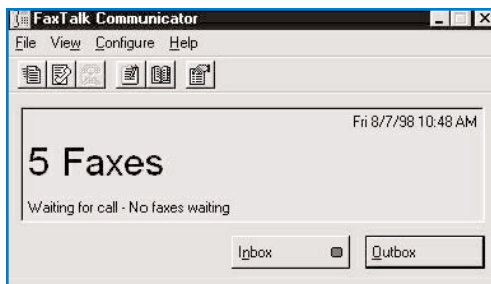
PaperPort^{SE}





FaxTalk Communicator

Take control over digital documents.



The main window changes, depending on the type of modem installed in the PC.

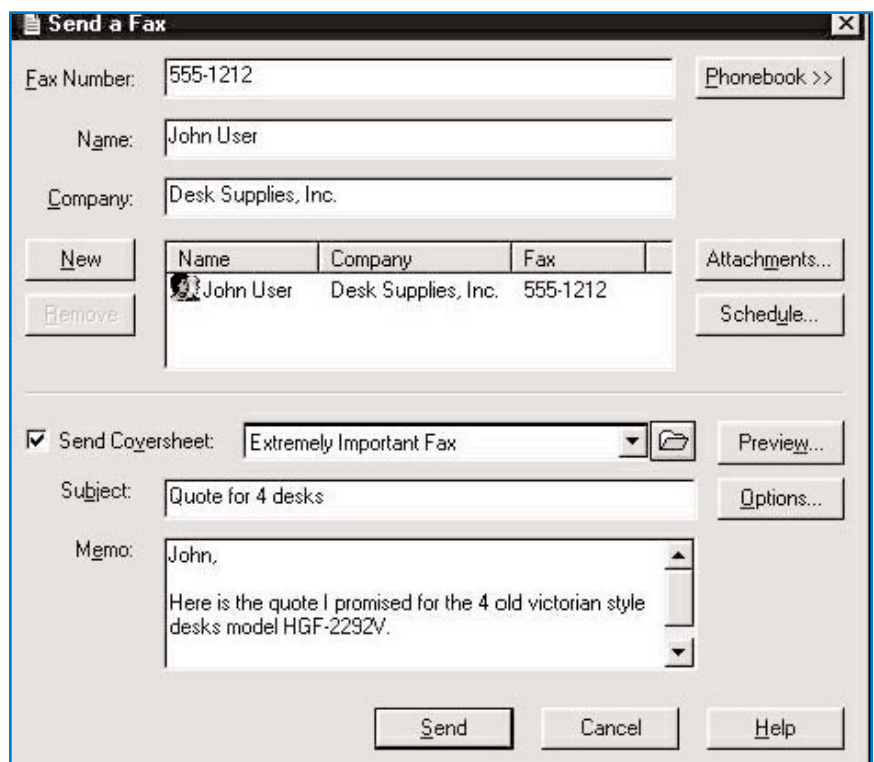


Sending and Receiving Digital Documents

The magicolor 2480 MF includes FaxTalk Communicator, PC Fax software which provides the tools needed to manage fax communications at the PC.

This software allows you to send and receive digital faxes, drag and drop scanned documents from PaperPort SE, automatically print received faxes, view and annotate faxes, and view fax logs.

In addition, with the appropriate modem, the PC can be used as a speakerphone and answering machine.



Faxes can be sent from FaxTalk Communicator (the Send a Fax dialog box is shown above), from any Windows application (print to the FaxTalk Communicator "printer"), or directly from Windows Explorer (right-click on a file name or icon and then from the pop-up menu choose Send To > FaxTalk Recipient).



Using the Send Log

The Send Log contains information about faxes that you have sent from FaxTalk Communicator. You can track the status of the faxes, view a sent fax, print hard copy records of transactions, and resend faxes if necessary.

Send Log							
File Log Help							
Recipient	Number	Date	User ID	Status	Pages	Duration	Speed
Harry Marsh	555-1212	8/7/98 3:41 PM	A Happy FaxTalk User	Sent	3	5:06	14400
Jack Morris	521-555-1212	8/7/98 2:42 PM	Crossroads Ltd.	Sent	1	0:46	14400
Greg Norda	451-0594	8/7/98 2:18 PM	Internet World	Sent	5	8:10	14400

Resend Delete Close

Using FaxTalk Communicator with PaperPort SE



Five typical icons in the PaperPort SE Send To bar. The fax icon is the second from the left.

The Send To bar at the bottom of the PaperPort SE desktop provides a series of icons for programs that you can use with PaperPort SE.

If you install FaxTalk Communicator before you install PaperPort SE, and if FaxTalk Communicator is the only PC Fax program you have installed, PaperPort SE will automatically equate the fax icon in the Send To bar with FaxTalk Communicator. Otherwise, you must use the PaperPort SE New Program wizard to do so (from the PaperPort SE Tools menu choose New Program Link, and then follow the instructions on the screen).

Once the fax icon is equated with FaxTalk Communicator, you can drag and drop documents scanned in PaperPort SE to FaxTalk Communicator for easy faxing.



Camera Direct Photo Print

Print directly from a PictBridge-enabled digital camera—no PC or special software required.

USB Host Port with PictBridge Compatibility

Using the USB 1.1 Host Port, conveniently located on the front of the magicolor 2480 MF, you can print photographs directly from any PictBridge-enabled digital camera with no PC or special software required. Supported functions include the following:

- ☐ 1-up, 2-up, 3-up, 4-up, 6-up, or 8-up photos
- ☐ Batch print
- ☐ Fit-to-page
- ☐ Index prints
- ☐ Multiple copies
- ☐ Plain paper or photo media
- ☐ Sizes up to 8.5" x 11", including 4" x 6" borderless prints with special media obtained through your KONICA MINOLTA dealer
- ☐ Varied or duplicate images on the same page

Depending on the camera model, other functions may also be supported.



3. Click "Print" in the camera user interface.

2. Select the photo(s) to be printed.

1. Connect the digital camera to the USB 1.1 Host Port.



Color Control

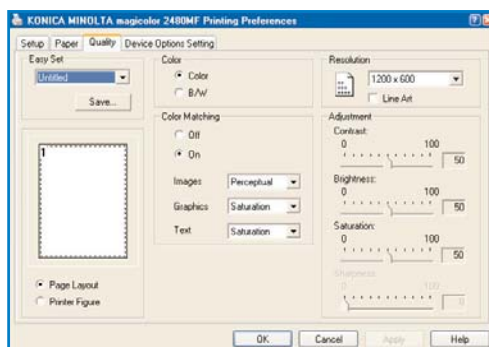
Get great color without great effort.

Professional Color Tools for Novices and Professionals

The magicolor 2480 MF is designed with the color novice in mind. The machine features an internal color matching system that automatically selects the proper color model based on the specific elements on any given page.

Professional color users will benefit from the ICC device profiles that allow them to adjust color.

In addition, the magicolor 2480 MF features enhanced Automatic Image Density Control (eAIDC), which produces consistent color from print to print.



Driver-based color matching selections are easy to access and use.

Fine-tune color output with the slider-bar color adjustments.

Automatic ICC-Based Color Matching

The magicolor 2480 MF printer driver includes an ICC-based color matching system that provides single-button controls for automatic correction of color files. Using built-in ICC profiles and an sRGB color space, this printer-resident system makes it as easy to get great color from a PowerPoint presentation as from a desktop publishing application such as QuarkXPress 6.5 or InDesign. Both novice and professional color users will find these color matching methods easy to navigate.

When the color matching system is activated, three different color rendering methods for three different types of page elements (graphics, images, and text) are available:

- ☐ **Colorimetric**—This is the best choice for documents that contain solid colors. The magicolor 2480 MF automatically adjusts color settings for consistent, predictable output.
- ☐ **Perceptual**—This is the ideal selection for documents with photographic images. It's tuned to enhance images for high-quality proofs.
- ☐ **Saturation**—This is the best selection for documents containing brightly colored text and graphics.

The custom selections in the printer driver can be used to fine-tune the color output manually. The convenient slider bars make it easy to adjust image contrast, brightness, saturation, and sharpness.



ICC Device Profiles

For hands-on color management, nine ICC color profiles are included with the magicolor 2480 MF.

- ☐ 2400 x 600 dpi—Colorimetric
- ☐ 2400 x 600 dpi—Perceptual
- ☐ 2400 x 600 dpi—Saturation
- ☐ 1200 x 600 dpi—Colorimetric
- ☐ 1200 x 600 dpi—Perceptual
- ☐ 1200 x 600 dpi—Saturation
- ☐ 600 x 600 dpi—Colorimetric
- ☐ 600 x 600 dpi—Perceptual
- ☐ 600 x 600 dpi—Saturation

Whether you're printing with Windows ICM or through an application using ICC color matching, you'll find these profiles helpful in adjusting the color to meet your specific requirements. Those using separate color matching software should choose the profiles with Perceptual color rendering.



eAIDC provides consistent color from page to page.

Enhanced Automatic Image Density Control (eAIDC)

From day to day, and from one consumable change to the next, toner density may change, ultimately affecting color consistency. To maintain color consistency and ensure predictable color without intervention, the magicolor 2480 MF automatically performs enhanced Automatic Image Density Control at the following times:

- ☐ When the machine is turned on.
- ☐ When the machine is turned on or exits from Energy Saver mode after a predetermined number of pages have been printed (200 pages since the last quick AIDC or 1000 pages since the last full AIDC).
- ☐ After a consumables change.



Options

Extras all productive offices can use.



Duplex Option

You can manually duplex on the magicolor 2480 MF by printing or copying one side of a page, reinserting it in the input tray, and then printing on the other side.

However, the automatic duplex option provides more convenient two-sided printing and copying. It installs on the back of the machine, and doesn't change the footprint.



Lower Feeder Unit

An optional 500-sheet lower feeder unit increases the magicolor 2480 MF paper input capacity to 700 sheets. The lower feeder unit accepts letter- or A4-size paper and attaches conveniently underneath the printer. Adding this option not only reduces the frequency of paper refills, but also provides the option of making more than one type of media available at all times in the machine.



External 10/100BaseTX Ethernet NIC

The silex technology SX-1000U Device Server supports TCP/IP for Windows XP/2000.

Extended Warranties

KONICA MINOLTA offers additional warranty options for the magicolor 2480 MF, including 1- and 2-year extended exchange warranties, and a 1-year exchange post warranty.



KONICA MINOLTA

KONICA MINOLTA PRINTING SOLUTIONS U.S.A., INC.
One Magnum Pass
Mobile, AL 36618
USA

printer.konicaminolta.com/usa